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PATENT

1600-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Laurence J. Zwiebel
Serial No.: 10/056,405
Filed: January 24, 2002
For: Mosquito Olfactory Genes, Polypeptides, and Methods of
Use Thereof
Group No. 1645
Attorney's Docket No. N7841
Customer No. 23456

INFORMATION DISCLOSURE STATEMENT

**(SUBMISSION WITHIN THREE MONTHS
OF FILING AN APPLICATION)**

Box IDS
Assistant Commissioner for Patents
Washington, D.C. 20231

April 18, 2002

Dear Sir:

Pursuant to 37 C.F.R. §1.97 and §1.98, applicants hereby submit an Information Disclosure Statement for consideration by the Examiner.

I. List of Patents, Publications or other Information

The Patents, publications, or other information submitted for

consideration by the Office are listed below and on the PTO-1449(s), attached hereto.

II. Copies

Submitted herewith is a legible copy of

- (i) each U.S. and Foreign Patent;
- (ii) each publication or that portion which caused it to be listed; and/or
- (iii) all other information or that portion which caused it to be listed.

III. Concise Explanation of Relevance

The attached documents, publications, and/or other information attached hereto are in the English language and do not require a statement of relevancy.

IV. Fees

The IDS is being filed under 37 C.F.R. §1.97(b); within three months of the filing date of a national application or before the mailing date of a first action on the merits, whichever event occurs last. No fee or statement is

required. In the event that a first Office Action on the merits has been issued, this IDS should still be considered without a fee due to the fact that it has been filed within three months of the filing date.

V. Payment of Fees

No fee is required.

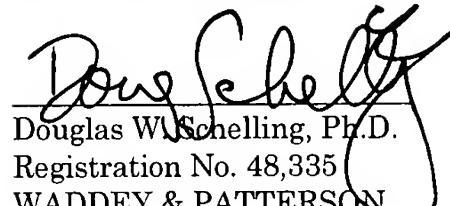
If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account 23-0035.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit in the overpayment to Deposit Account 23-0035 for any additional fees required under 37 C.F.R. §1.16 or §1.17.

The Commissioner is authorized to charge any deficiency or credit any overpayment in connection with this Information Disclosure Statement to Deposit

Account No. 23-0035.

Respectfully submitted,


Douglas W. Schelling, Ph.D.
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ATTORNEY FOR APPLICANT

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CERTIFICATE OF FIRST CLASS MAILING

I hereby certify that this Information Disclosure Statement is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Douglas W. Schelling, Ph.D.


Registration No. 48,335

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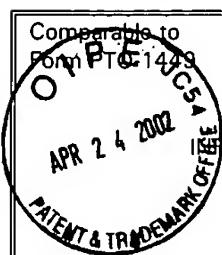
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Comparable to PCT/PO 04/429 APR 24 2002 SEARCHED & INDEXED JCS U.S. Patent & Trademark Office		U.S. Department of Commerce Patent & Trademark Office		Atty. Docket No.		Serial No.	
				N7841 Customer No. 23456		10/056,405	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Applicant					
		Laurence J. Zwiebel					
		Filing Date January 24, 2002				Group 1645	
Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	5,011,909	April 30, 1991	Borovsky et al.			
	AB	5,030,722	July 9, 1991	Snyder et al.			
	AC	5,128,246	July 7, 1992	Snyder et al			
	AD	5,130,253	July 14, 1992	Borovsky et al.			
	AE	5,439,821	August 8, 1995	Borovsky et al.			
	AF	5,501,976	March 26, 1996	Borovsky et al.			
	AG	5,629,196	May 13, 1997	Borovsky et al.			
	AH	5,670,354	September 23, 1997	Burns et al.			
	AI	5,702,916	December 30, 1997	Molin et al			
	AJ	5,993,778	November 30, 1999	Firestein et al.			
	AK	6,008,046	December 28, 1999	Ffrench-Constant et al.			
	AL	6,071,878	June 6, 2000	Delecluse et al.			
MISCELLANEOUS DOCUMENTS							
	AM	BENTROP, ET AL.; An arrestin homolog of blowfly photoreceptors stimulates visual-pigment phosphorylation by activating a membrane-associated protein kinase; Eur. J. Biochem (1993) 216: 67-73					
	AN	BOEKHOFF, ET AL.; Termination of second messenger signaling in olfaction; Proc. Natl. Acad. Sci.; January 1992; 89: 471-474.					
	AO	CLYNE, ET AL.; A Novel Family of Divergent Seven-Transmembrane Proteins: Candidate Odorant Receptors in Drosophila; Neuron, February 1999; Vol. 22, 327-338.					
	AP	FOX, ET AL.; Candidate Odorant Receptors from the Malaria Vector Mosquito, Anopheles Gambiae AND evidence of Down-Regulation in Response to Blood Feeding; PNAS, Vol. 98, No. 25, December 2001, 14693-14697.					
	AQ	HYDE, ET AL.; Twenty Drosophila visual system cDNA clones: One is a homolog of human arrestin; Proc. Natl. Acad. Sci.; February 1990; 87: 1008-1012.					
	AR	LEVINE III, ET AL.; Isolation of a Novel Visual-System-Specific Arrestin: An In Vivo Substrate for light-Dependent Phosphorylation., Mechanisms of Development, Dec. 1990, 1:19-25.					
	AS	MERRILL, ET AL.; Visual Arrestins in Olfactory Pathways of Drosophila and the Malaria Vector Mosquito Anopheles Gambiae; PNAS, Vol. 99, No. 3; February 5, 2002; 1633-1638.					
Examiner:				Date Considered			
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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 Comparable to Form PTC 1449 APR 24 2002 PTC 1449 PATENT & TRADEMARK OFFICE		U.S. Department of Commerce Patent & Trademark Office		Atty. Docket No.		Serial No.	
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Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date If Appropriate
MISCELLANEOUS DOCUMENTS							
AT	RAMING, ET AL.; <u>Arrestin-Subtypes in Insect Antennae</u> ; Cellular Signaling; 1993; 5: 69-80.						
AU	ROMAN, ET AL.; <u>Kurtz, a Novel Nonvisual Arrestin, Is an Essential Neural Gene in Drosophila</u> ; Genetics; July 2000; 155: 1281-1295.						
AV	SMITH, ET AL.; <u>Isolation and structure of an arrestin gene from Drosophila</u> ; Proc. Natl. Acad. Sci; February 1990; 87: 1003-1007.						
AW	SMITH, ET AL.; <u>Isolation and expression of an arrestin cDNA from the horseshoe crab lateral eye</u> ; Journal of Neurochemistry; 1995; 64: 1-12.						
AX	VOSSHALL; <u>The Molecular Logic of Olfaction in Drosophila</u> ; Chem. Senses (2001) 26: 207-213.						
AY	VOSSHALL, ET AL.; <u>A Spatial Map of Olfactory Receptor Expression in the Drosophila Antenna</u> ; Cell, Vol. 96; March 5, 1999; 725-736.						
AZ	YAMADA, ET AL.; <u>A 49-Kilodalton Phosphoprotein in the Drosophila Photoreceptor is an Arrestin Homolog</u> ; Science, Vol. 248 (April 27, 1990); 483-486						
Examiner:		Date Considered					
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							